

Instituto Tecnológico de Cancún



Materia:

Fundamentos de Telecomunicaciones

Tarea:

Laboratorio 8

Spot Path and Server Latency Problems

Alumno: Aguilar Moreno Jorge Axel

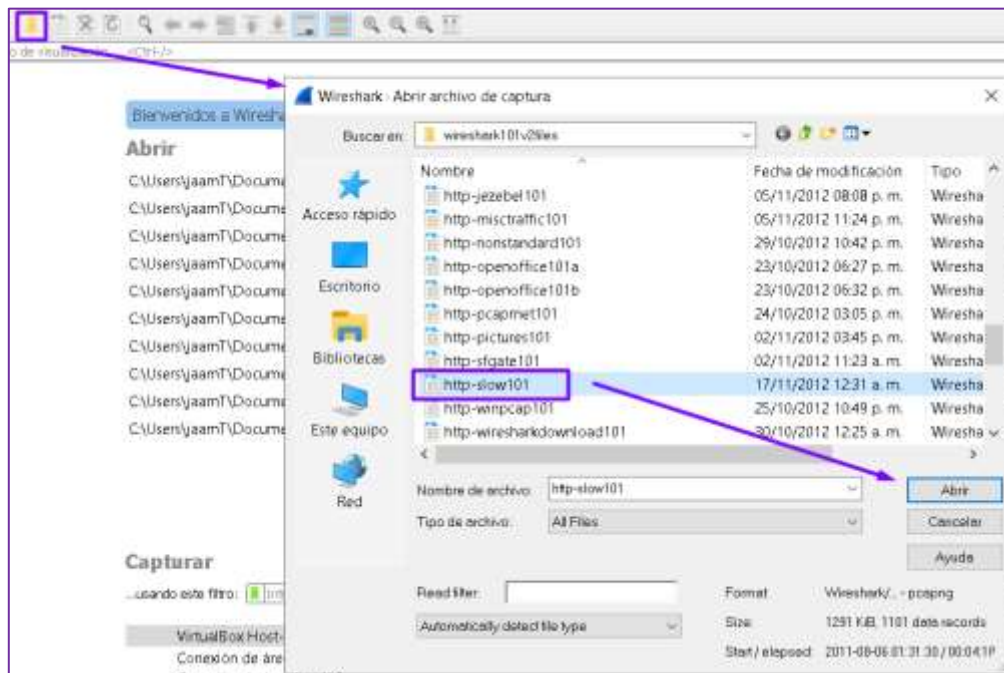
Docente: Ismael Jiménez Sánchez

Horario: 17:00 – 18:00

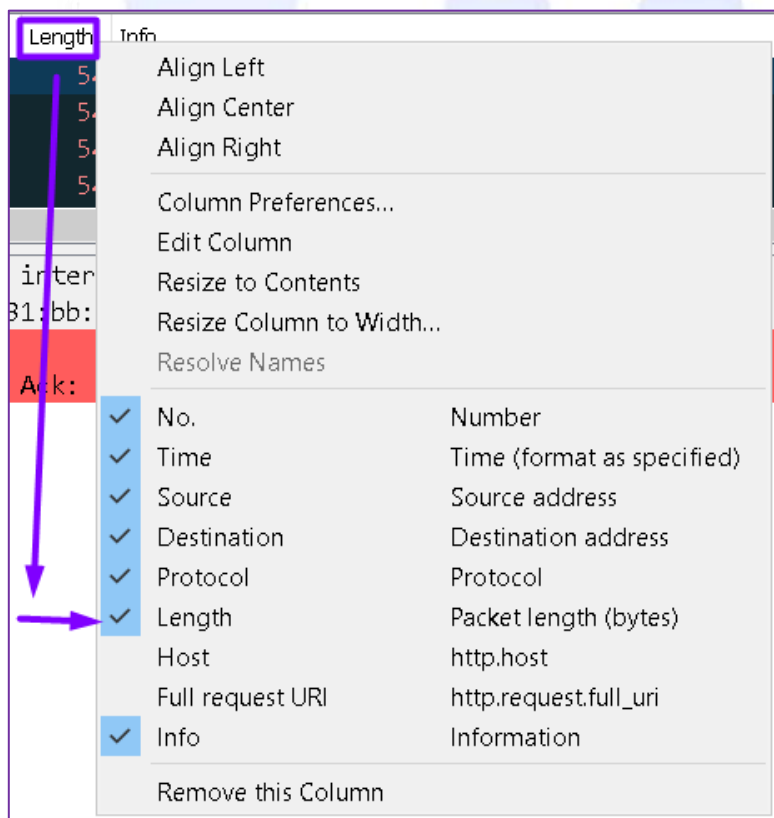
Ing. Sistemas Computacionales

5.-Semestre

Paso 1:



Paso 2:



No.	Time	Source	Destination	Protocol	Info
1	0.000000	24.6.173.220	66.4.231.53	TCP	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 [TCP CHECKSUM INCORRECT] Len=0
2	0.003434	24.6.173.220	66.4.231.53	TCP	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 [TCP CHECKSUM INCORRECT] Len=0
3	0.003499	24.6.173.220	66.4.231.53	TCP	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 [TCP CHECKSUM INCORRECT] Len=0
4	0.003534	24.6.173.220	66.4.231.53	TCP	12598 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 [TCP CHECKSUM INCORRECT] Len=0

Frame 1: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface unknown, id 0
 Ethernet II, Src: Hewlett-Packard (d4:85:64:a7:bfa3), Dst: Cadent_31:bb:c1 (00:01:5c:31:bb:c1)
 Internet Protocol Version 4, Src: 24.6.173.220, Dst: 66.4.231.53
 Transmission Control Protocol, Src Port: 12592, Dst Port: 80, Seq: 1, Ack: 1, Len: 0

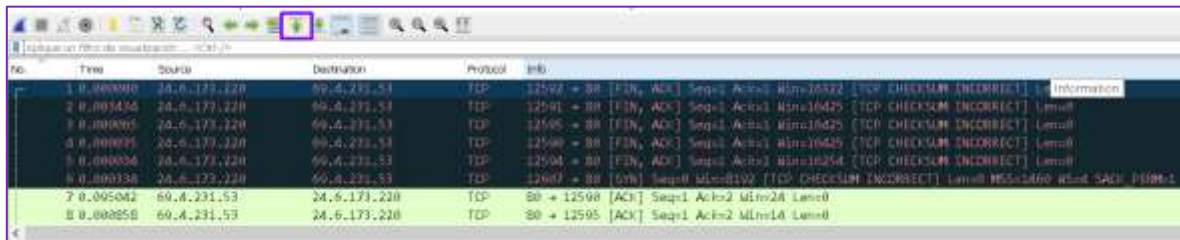
Paso 3:

Visualización | Ir | Captura | Analizar | Estadísticas | Telefonía | Wireless | Herramientas | Ayuda

- Barra de herramientas principal
- Barra de herramientas de filtro
- Barra de estado
- Pantalla completa F11
- Listado de paquetes
- Detalles de paquete
- Bytes de paquete
- Formato de visualización de hora
 - Fecha y hora de día (1970-01-01 01:02:03.123456) Ctrl+Alt+1
 - Año, día de año, y hora de día (1970/001 01:02:03.123456)
 - Hora de día (01:02:03.123456) Ctrl+Alt+2
 - Segundos desde 1970-01-01 Ctrl+Alt+3
 - Segundos desde inicio de captura Ctrl+Alt+4
 - Segundos desde paquete capturado anterior Ctrl+Alt+5**
 - Segundos desde paquete mostrado anterior Ctrl+Alt+6
 - Fecha y hora de día UTC (1970-01-01 01:02:03.123456) Ctrl+Alt+7
 - Año, día de año, y hora de día UTC (1970/001 01:02:03.123456)
 - Hora de día UTC (01:02:03.123456) Ctrl+Alt+8
 - Automático (desde archivo de captura)
 - Segundos
 - Décimas de segundo
 - Centésimas de segundo
 - Milisegundos
 - Microsegundos
 - Nanosegundos
 - Mostrar segundos con horas y minutos
- Expandir subárboles Shift+Right
- Contraer subárboles Shift+Left
- Expandir todo Ctrl+Right
- Contraer todo Ctrl+Left
- Colorear listado de paquetes
- Reglas de coloreado...
- Colorear conversación
- Restablecer diseño Ctrl+Shift+W
- Cambiar tamaño de columnas Ctrl+Shift+R
- Internas
 - Mostrar paquete en nueva ventana
 - Volver a cargar como formato/captura de archivo Ctrl+Shift+F
 - Volver a cargar Ctrl+R

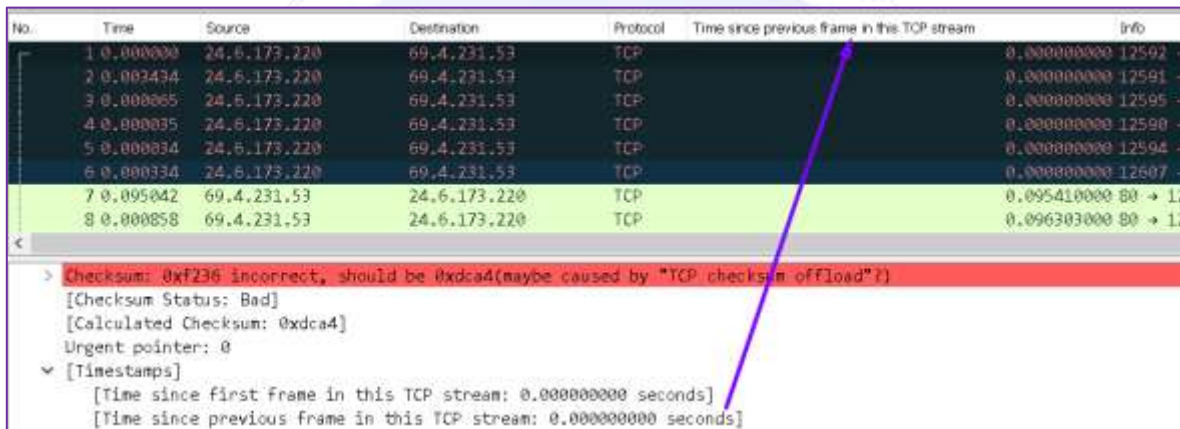
No.	Time	Source	Destination	Protocol	Info
154	138.195708	24.6.173.220	66.4.231.53	TCP	12680 → 80 [FIN, ACK] Seq=1971 Ack=151255 Win=65700 [TCP CHECKSUM INCORRECT] Len=0
210	29.006113	66.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)
10	18.986209	24.6.173.220	66.4.231.53	TCP	12607 → 80 [FIN, ACK] Seq=401 Ack=1 Win=65700 [TCP CHECKSUM INCORRECT] Len=0
23	17.985049	66.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)
1890	14.740399	66.4.231.53	24.6.173.220	TCP	80 → 12621 [FIN, ACK] Seq=846385 Ack=672 Win=7680 Len=0
1180	14.381621	24.6.173.220	66.4.231.53	TCP	12621 → 80 [FIN, ACK] Seq=672 Ack=846385 Win=261340 [TCP CHECKSUM INCORRECT] Len=0
200	17.188680	24.6.173.220	66.4.231.53	HTTP	GET /images/story-1.8/apan/ HTTP/1.1
289	18.918718	24.6.173.220	66.4.231.53	TCP	12680 → 80 [FIN, ACK] Seq=461 Ack=169480 Win=65700 [TCP CHECKSUM INCORRECT] Len=0

Paso 4:



No.	Time	Source	Destination	Protocol	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	12592 → 80 [FIN, ACK] Seq=12592 Win=32768 [TCP CHECKSUM INCORRECT] Len=0
2	0.000000	24.6.173.220	69.4.231.53	TCP	12591 → 80 [FIN, ACK] Seq=12591 Win=32768 [TCP CHECKSUM INCORRECT] Len=0
3	0.000000	24.6.173.220	69.4.231.53	TCP	12590 → 80 [FIN, ACK] Seq=12590 Win=32768 [TCP CHECKSUM INCORRECT] Len=0
4	0.000000	24.6.173.220	69.4.231.53	TCP	12589 → 80 [FIN, ACK] Seq=12589 Win=32768 [TCP CHECKSUM INCORRECT] Len=0
5	0.000000	24.6.173.220	69.4.231.53	TCP	12588 → 80 [FIN, ACK] Seq=12588 Win=32768 [TCP CHECKSUM INCORRECT] Len=0
6	0.000000	24.6.173.220	69.4.231.53	TCP	12587 → 80 [FIN] Seq=12587 Win=32768 [TCP CHECKSUM INCORRECT] Len=0
7	0.095042	69.4.231.53	24.6.173.220	TCP	80 → 12592 [ACK] Seq=12592 Win=0 Len=0
8	0.000000	69.4.231.53	24.6.173.220	TCP	80 → 12595 [ACK] Seq=12595 Win=0 Len=0

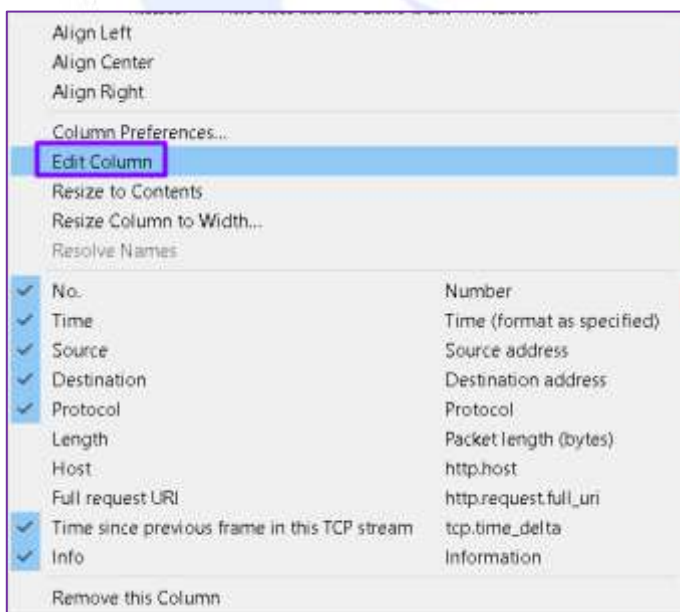
Paso 5:



No.	Time	Source	Destination	Protocol	Time since previous frame in this TCP stream	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP		0.000000000 12592 → 80
2	0.000000	24.6.173.220	69.4.231.53	TCP		0.000000000 12591 → 80
3	0.000000	24.6.173.220	69.4.231.53	TCP		0.000000000 12590 → 80
4	0.000000	24.6.173.220	69.4.231.53	TCP		0.000000000 12589 → 80
5	0.000000	24.6.173.220	69.4.231.53	TCP		0.000000000 12588 → 80
6	0.000000	24.6.173.220	69.4.231.53	TCP		0.000000000 12587 → 80
7	0.095042	69.4.231.53	24.6.173.220	TCP		0.095410000 80 → 12592
8	0.000000	69.4.231.53	24.6.173.220	TCP		0.096303000 80 → 12595

> Checksum: 0xf236 incorrect, should be 0xdca4 (maybe caused by "TCP checksum offload"?)
[Checksum Status: Bad]
[Calculated Checksum: 0xdca4]
Urgent pointer: 0
[Timestamps]
[Time since first frame in this TCP stream: 0.000000000 seconds]
[Time since previous frame in this TCP stream: 0.000000000 seconds]

Paso 6:



No.	Time	Source	Destination	Protocol	Length	Host	Full request URI	Time since previous frame in this TCP stream	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	0				0.000000000 12592 → 80
2	0.000000	24.6.173.220	69.4.231.53	TCP	0				0.000000000 12591 → 80
3	0.000000	24.6.173.220	69.4.231.53	TCP	0				0.000000000 12590 → 80
4	0.000000	24.6.173.220	69.4.231.53	TCP	0				0.000000000 12589 → 80
5	0.000000	24.6.173.220	69.4.231.53	TCP	0				0.000000000 12588 → 80
6	0.000000	24.6.173.220	69.4.231.53	TCP	0				0.000000000 12587 → 80
7	0.095042	69.4.231.53	24.6.173.220	TCP	0				0.095410000 80 → 12592
8	0.000000	69.4.231.53	24.6.173.220	TCP	0				0.096303000 80 → 12595

Title: TCP Delta		Type: Destination address		Fields: Enter a field ...	
No.	Time	Source	Destination	Protocol	Time since previous frame in this TCP stream
1	0.000000	24.6.173.220	69.4.231.53	TCP	
2	0.003434	24.6.173.220	69.4.231.53	TCP	
3	0.000065	24.6.173.220	69.4.231.53	TCP	
4	0.000035	24.6.173.220	69.4.231.53	TCP	
5	0.000034	24.6.173.220	69.4.231.53	TCP	
6	0.000334	24.6.173.220	69.4.231.53	TCP	
7	0.095042	69.4.231.53	24.6.173.220	TCP	

Paso 7:

No.	Time	Source	TCP Delta	Protocol	Time since previous frame in the TCP stream	Info
1	0.000000	24.6.173.220	0.000000	TCP		1.1.1.1:12345 → 69.4.231.53:80 [FIN, ACK] Seq=12345, Win=0, Len=0
2	0.003434	69.4.231.53	41.98964	HTTP		41.98964000 HTTP/1.1 200 OK (text/html)
3	0.000065	69.4.231.53	36.35260	HTTP		36.35260000 HTTP/1.1 200 OK (text/html)
4	0.000035	24.6.173.220	18.90924	TCP		18.90924000 12002 → 69.4.231.53:80 [FIN, ACK] Seq=12002, Win=0, Len=0 [TCP CHECKSUM INCORRECT] Len=0
5	0.000034	69.4.231.53	18.95124	HTTP		18.95124000 HTTP/1.1 200 OK (text/html)
6	0.000034	69.4.231.53	17.96504	HTTP		17.96504000 HTTP/1.1 200 OK (text/html)
7	0.000334	69.4.231.53	14.90788	TCP		14.90788000 80 → 12002 [FIN, ACK] Seq=797, Win=7108, Len=0
8	0.000334	69.4.231.53	14.81292	TCP		14.81292000 80 → 12002 [FIN, ACK] Seq=797, Win=7108, Len=0
9	0.000334	69.4.231.53	14.74510	TCP		14.74510000 80 → 12002 [FIN, ACK] Seq=797, Win=7108, Len=0

Frame 954: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface unknown, id 0

Ethernet II, Src: Hewlett-Packard (08:00:27:00:00:00), Dst: Cadent 31000000 (08:00:27:00:00:00)

TCP, Src Port: 80, Dst Port: 12002, Seq: 797, Win: 7108, Len: 0

Transmission Control Protocol, Src Port: 80, Dst Port: 12002, Seq: 797, Win: 7108, Len: 0

Paso 8:

No.	Time	Source	Protocol	Length	Info
1	0.000000	24.6.173.220	TCP	54	12345 → 69.4.231.53:80 [FIN, ACK] Seq=12345, Win=0, Len=0 [TCP CHECKSUM INCORRECT] Len=0
2	0.003434	24.6.173.220	TCP	54	12345 → 69.4.231.53:80 [FIN, ACK] Seq=12345, Win=0, Len=0 [TCP CHECKSUM INCORRECT] Len=0
3	0.000065	24.6.173.220	TCP	54	12345 → 69.4.231.53:80 [FIN, ACK] Seq=12345, Win=0, Len=0 [TCP CHECKSUM INCORRECT] Len=0
4	0.000035	24.6.173.220	TCP	54	12345 → 69.4.231.53:80 [FIN, ACK] Seq=12345, Win=0, Len=0 [TCP CHECKSUM INCORRECT] Len=0
5	0.000034	24.6.173.220	TCP	54	12345 → 69.4.231.53:80 [FIN, ACK] Seq=12345, Win=0, Len=0 [TCP CHECKSUM INCORRECT] Len=0
6	0.000334	24.6.173.220	TCP	66	12002 → 69.4.231.53:80 [SYN] Seq=0, Win=65535, Len=0 [TCP CHECKSUM INCORRECT] Len=0 MSS=1460 WS=4 SACK_PERM=1
7	0.000334	24.6.173.220	TCP	66	12002 → 69.4.231.53:80 [SYN] Seq=0, Win=65535, Len=0 [TCP CHECKSUM INCORRECT] Len=0 MSS=1460 WS=4 SACK_PERM=1
8	0.007718	69.4.231.53	HTTP	388	HTTP/1.1 200 OK (text/html)
9	0.009981	24.6.173.220	TCP	66	12002 → 69.4.231.53:80 [SYN] Seq=0, Win=65535, Len=0 [TCP CHECKSUM INCORRECT] Len=0 MSS=1460 WS=4 SACK_PERM=1